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[1. X5.02: Advanced Fabrication and Manufacturing of Metallic and Polymer Matrix Composite Materials for Lightweight Structures](#)

Release Date: 07-18-2011 Open Date: 07-18-2011 Due Date: 09-08-2011 Close Date: 09-08-2011

The objective of the subtopic is to advance technology readiness levels of lightweight structures for launch vehicles and in-space applications, by using advanced materials and manufacturing techniques, resulting in structures having affordable, reliable, predictable performance with reduced costs.

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[2. N11A-T014: Advanced Flame Resistant Resin System for Carbon Fiber Reinforced Composite Shipboard Applications](#)

Release Date: 01-27-2011 Open Date: 02-28-2011 Due Date: 03-30-2011 Close Date: 03-30-2011

OBJECTIVE: To develop new affordable non-halogenated polymeric resin materials that have the improved structural, thermal and Fire, Smoke, and Toxicity (FST) behavior when compared to conventional brominated vinyl esters (Derakane 510A) which are currently in use by the U.S. Navy in topside structures. Special emphasis will be given to the structural and thermal characteristics of the polymeric sy ...

STTR Navy

3. X15.02: Advanced Food Technologies

Release Date: 07-18-2011Open Date: 07-18-2011Due Date: 09-08-2011Close Date: 09-08-2011

The purpose of the NASA Advanced Food Technology Project is to develop, evaluate and deliver food technologies for human centered spacecraft that will support crews on long duration missions beyond low-Earth orbit. Safe, nutritious, acceptable, and varied shelf-stable foods with a shelf life of 3 - 5 years will be required to support the crew during these exploration missions. Concurrently, the food system must efficiently balance appropriate vehicle resources such as mass, volume, water, air, waste, power, and crew time.

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4. X9.02: Advanced Integrated Hypersonic Entry Systems

Release Date: 07-18-2011Open Date: 07-18-2011Due Date: 09-08-2011Close Date: 09-08-2011

The technologies below support the goal of developing advanced integrated hypersonic entry systems that meet the longer-term goals of realizing larger payload masses for future Exploration missions. Advanced integrated thermal protection systems are sought that address:

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5. N113-181: Advanced Medium-Voltage, High-Power Charging Converter for Pulsed Power Applications

Release Date: 07-28-2011Open Date: 08-29-2011Due Date: 09-28-2011Close Date: 09-28-2011

TECHNOLOGY AREAS: Ground/Sea Vehicles, ElectronicsACQUISITION PROGRAM: PMS 320, Electric Ship Office

SBIR Department of DefenseArmyNavyDefense Advanced Research Projects AgencyOffice of the Secretary of Defense

6. O3.05: Advanced Motion Imaging

Release Date: 07-18-2011Open Date: 07-18-2011Due Date: 09-08-2011Close Date: 09-08-2011

Digital motion imaging technologies provide great improvements over analog systems, but also present significant challenges. Digital High Definition Television (HDTV) cameras flown on the Shuttle and International Space Station have shown higher susceptibility to ionizing radiation damage, manifested by visible "dead" pixels in the image. In order to practically deploy HDTV cameras, sensors and processors need to survive operations on orbit for years without debilitating radiation damage that degrades image quality and performance.

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[7. S2.04: Advanced Optical Component Systems](#)

Release Date: 07-18-2011Open Date: 07-18-2011Due Date: 09-08-2011Close Date: 09-08-2011

The National Academy Astro2010 Decadal Report specifically identifies optical components and coatings as key technologies needed to enable several different future missions, including:

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[8. X8.04: Advanced Photovoltaic Systems](#)

Release Date: 07-18-2011Open Date: 07-18-2011Due Date: 09-08-2011Close Date: 09-08-2011

Advanced photovoltaic (PV) power generation and enabling power system technologies are sought for improvements in capability and reliability of PV power generation for space exploration missions. Power levels for PV applications may reach 100s of kWe. System and component technologies are sought that can deliver efficiency, cost, reliability, mass and volume improvements under various operating conditions.

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[9. SB113-004: Advanced Propellants Capable of Controllable and Regulated Burns](#)

Release Date: 07-28-2011Open Date: 08-29-2011Due Date: 09-28-2011Close Date: 09-28-2011

TECHNOLOGY AREAS: Materials/Processes, Weapons

SBIR Department of DefenseArmyNavyDefense Advanced Research Projects AgencyOffice of the Secretary of Defense

[10. O2.05: Advanced Propulsion Testing Technologies](#)

Release Date: 07-18-2011Open Date: 07-18-2011Due Date: 09-08-2011Close Date: 09-08-2011

The aim of this subtopic is to develop new technologies to reduce cost and schedule, improve reliability and quality, and increase safety of Rocket Propulsion Testing. To this end, proposals for technology development will be accepted for any of the following four subject areas:

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